

Title (en)
A spectrum analyser

Title (de)
Spektralanalysator

Title (fr)
Analyseur de spectre

Publication
EP 0841569 A3 19990616 (EN)

Application
EP 97308476 A 19971023

Priority
GB 9623242 A 19961107

Abstract (en)
[origin: EP0841569A2] A spectrum analyser comprising: means for converting at each of a first and at least one further tuned setting thereof the frequency of a received radio frequency signal to a respective first and at least one further intermediate frequency; means for digitising each intermediate frequency signal; means for carrying out a frequency analysis of each digitised intermediate frequency signal to provide a respective power spectrum thereof; means for shifting the frequency of the power spectrum of the or each said further intermediate frequency signal so that the spectral line corresponding to the further intermediate frequency is shifted to the first intermediate frequency; means for combining the power spectrum of the first intermediate frequency signal with the shifted power spectrum(s) of the further intermediate frequency signal(s) such that any spurious present in the power spectrums due to operation of said spectrum analyser are attenuated as compared to spectral lines present in the power spectrums due to frequency components of said received radio frequency signal. <IMAGE>

IPC 1-7
G01R 23/16

IPC 8 full level
G01R 23/16 (2006.01); **G01R 23/173** (2006.01)

CPC (source: EP)
G01R 23/16 (2013.01)

Citation (search report)
• [XY] US 4791577 A 19881213 - WINTER JOHN E [US]
• [YA] US 4054785 A 19771018 - LEHMANN JOSEPH L
• [A] US 5519645 A 19960521 - BOHLEY ROLF [DE]
• [A] "MODERN INSTRUMENTS EASE FREQUENCY ANALYSIS", EDN ELECTRICAL DESIGN NEWS, vol. 36, no. 10, 9 May 1991 (1991-05-09), pages 95 - 100, 102, XP000228540
• [A] KAWABATA S ET AL: "A HIGH-PERFORMANCE 1.8-GHZ VECTOR NETWORK AND SPECTRUM ANALYZER", HEWLETT-PACKARD JOURNAL, vol. 44, no. 5, 1 October 1993 (1993-10-01), pages 76 - 84, XP000403455

Cited by
EP1884876A3; CN103502822A; EP4119954A1; DE102004050912B4; DE102004050912A1; US7313492B2; US9558154B2; WO0020875A1; WO2012171713A1

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